History of Bioterrorism: Plague

Visual	Audio
Opening Credits: "History of	
Bioterrorism" "Plague"	
Joanne Cono, MD, SciM	Man has used organisms found in nature to kill or disable his enemies
National Center for Infectious Diseases	since the middle ages. One of the earlier examples occurred in the 14 th
	Century
Kaffa paintings, Cono voiceover	when the Tartar Army laid siege to Caffa, a walled city along the Black
	Sea. When an outbreak of bubonic plaque began to ravage the Tartars,
	they decided to catapult the plague-ridden corpses into the city, thereby
	helping to start an outbreak within the walls. Shortly thereafter the
	Genoese defenders within the city were stricken with plague and fled to
	Italy. They carried this infection with them to Europe, beginning the
	outbreak of the horrible black death which decimated the European
	population.
	With our current knowledge of the epidemiology of plague,
Cono in studio	we know that fleas leave a body quickly after it cools, therefore it's most
	likely that the outbreak was actually spread in Caffa by flea-infested rats
	which were already within the city.
Japanese footage, Cono voiceover	The Japanese imperial unit 731 operated in the 1930s and 40s when
	Japan was mobilized and ready for war. General Shiro Ishii
	masterminded this terrible program had a mission to turn illness into
	weapons of murder. Ishii was particularly fascinated by plague because
	with plague, a biological warfare attack could present like a natural
	epidemic. Person to person spread could then produce disease out of
	proportion to the original amount of agent used. The Japanese were
	unable to disseminate plague by either aerosol or in the water supply,
Cono in Studio	so they used nature's vector for spreading the disease, the common flea.
Japanese footage, Cono in Studio	Ceramic bombs loaded with infected fleas were dropped over several

	cities in mainland China, causing large outbreaks among their
	population.
Cono in Studio	Plague is attractive as a weapon because it generates fear, it spreads
	easily, and it kills very quickly.
US Footage, Cono voiceover	The United States offensive program did some research on plague, but it
	was never fully weaponized in this country. We could not overcome the
	challenge of maintaining virulence when it was grown in large quantities.
Fade to Clip of William C. Patrick III	It's just as well, I guess, that we didn't weaponize plague because it's a
	weapon that, you know, it's a contagious agent and we felt that in
	retrospect that we had enough problems controlling an aerosol under
	meterological conditions that can change without having an organism
	that is so contagious that you know, you're not able to control where that
	organism might end up. It might come back to bite you. Not only bite
	your forces, but some of your friendly allied forces also.
Cono in Studio	Plague was, however, a favorite organism in the Soviet arsenal because
	of its communicability.
Soviet footage, Cono voiceover	The Soviets overcame the virulence problems experienced by the U.S.
	According to interviews with the Soviet defector, Dr. Alibek, they had
	1,500 metric tons of plague on hand at any given time and kept it ready
	for use in their intercontinental ballistic missiles. Due to storage
	problems, they frequently recycled their stock pile of plague with fresh
	agent.
Cono in Studio	We're very concerned about terrorists' use of plague because the agent
	is found not only in nature, but also in numerous biological supply
	houses throughout the world.